A therapeutic agent being a radio-labeled soluble precipitable material 69. which is to be converted into an insoluble and non-digestible radio-labeled precipitate by the action of a non-mammalian enzyme when the therapeutic agent is administered to a living host containing a heterogeneous population of cancer cells including at least a subpopulation of cancer cells being the target cells, each including a first antigenic receptor, the therapeutic agent being adjacent to the target cancer cells subsequent to the administration to the living host of a bispecific reagent, the bispecific reagent when administered to a living host being bound to the target cancer cells, the bispecific reagent containing two moietics, the first moiety which is a non-mammalian enzyme moiety being a first enzyme moiety, the bispecific reagent further containing a second moiety including a target agent moiety which has a substantial affinity for the first antigenic receptor of the target cancer cells, the therapoutic agent to be converted in the extracellular fluid of the living host, adjacent to the bispecific reagent, into an insoluble and non-digestible radio-labeled precipitate which is an extra-cellular radio-labeled precipitate by the action of the first enzyme moiety of the bispecific reagent, the bispecific reagent to be bound to the target cancer coils, the therapeutic agent being from a group consisting of populdes, including opio-melanins, of carhohydrates, including cellulose, chitosan, and chitin, of proteogylcans, of synthetic polymers, and of substituted indoxyl compounds containing molecular positions 1-7, the extra-cellular radio-labeled precipitate having an epitope selected from the group consisting of a first antigenic epitope, being an epitope which is an integral part of the structure of the extra-cellular radio-labeled precipitate, a second antigenic epitope, and a neo-antigenic third epitope,

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the neo-antigenic third epitope not being present on the therapeutic agent, the extracellular radio-labeled precipitate remaining in the extra-cellular fluid adjacent to the bispecific reagent for an extended period of time sufficient to kill non-selectively all cells adjacent to the extra-cellular radio-labeled precipitate.

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71. A therapeutic agent in accordance with claim 69 in which a cell-impermeant chemical group is attached to the therapeutic agent, the cell-impermeant chemical group causing the therapeutic agent to be cell impermeant.

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72. A therapeutic agent in accordance with claim 71 in which the cell-impermeant chemical group is selected from the group consisting of thiol chemical groups, anionic chemical groups, and cell impermeant chemical groups including peptides and polymers of a molecular weight greater than 1000 daltons.



75. A therapeutic agent in accordance with claim 74 in which the soluble intermediate molecule having the characteristic to be oxidized in the natural environment within the extra-cellular fluid, the oxidized soluble intermediate molecule being spontaneously dimerized, thereby forming the extra-cellular radio-labeled precipitate.



76. A therapeutic agent in accordance with claim 69 in which each of the indoxyl compounds is selected from the group consisting of indoxyl-lactam and indoxyl-glycosides, which when attached to position 3 of the indoxyl compounds are cleavable by the first enzyme moiety of the bispecific reagent, the material remaining after cleaving at

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position 3 being a soluble reactive intermediate molecule which can be oxidized and dimerized, thereby forming the extra-cellular radio-labeled precipitate.

- 77. A therapeutic agent in accordance with claim 69 in which each of the indoxyl compounds can be substituted to at least one of positions 4, 5, 6, and 7 of the indoxyl compound to reduce the ability of the extra-cellular radio-labeled precipitate to move in the extra-cellular fluid.
- 78. A therapeutic agent in accordance with claim 69 in which each of the indoxyl compounds includes phenyl compounds attached at position 4, 5, 6, or 7 of the indoxyl compound to reduce the ability of the extra-cellular radio-labeled precipitate to move in the extra-cellular fluid.
  - 79. A therapeutic agent in accordance with claim 69 in which each of the indoxyl compounds includes benzyloxy compounds attached at position 5 of the indoxyl compounds to reduce the ability of the indoxyl compounds and the extracellular radio-labeled precipitate to move in the extra-cellular fluid.
  - 80. A therapeutic agent in accordance with claim 69 in which each of the indoxyl compounds includes 5.5—bi-indoxyls attached at position 5 of the indoxyls compounds to reduce the ability of the indoxyl compounds and the extracellular radio-labeled precipitate to move by at least one of diffusion and convective flow in the extracellular fluid.